

Serial No.: 09/881,843

Attorney Docket No: MCS-071-00

Examination, the Applicants respectfully request the application be amended as set forth below.

IN THE CLAIMS

Please cancel claim 14 without prejudice.

Please add new claims 29 and 30 as follows:

Please amend claims 1, 8, 15, 16, 18 and 21 as follows:

1. (Currently Amended) An automated event presentation system for capturing and viewing an event having event participants, comprising:

an omni-directional camera system that provides a seamless omni-directional image of the event and that simultaneously monitors and automatically tracks event participants to determine the event participants that are speaking using audio analysis and films the event;

an automated online broadcasting system that controls and uses the omni-directional camera system to keep track of monitor each of the monitored tracked event participants simultaneously, and broadcasts the event; and

a viewer platform in communication with the automated online broadcasting system that allows a viewer to view the broadcasted event.

2. (Original) The automated event presentation system as set forth in claim 1, wherein the omni-directional camera system includes a camera having a wide-angle view of approximately 360 degrees.

3. (Original) The automated event presentation system as set forth in claim 1, wherein the omni-directional camera system includes a plurality of cameras that combined provide an approximately 360-degree field-of-view.

Serial No.: 09/681,843

Attorney Docket No: MCS-071-00

4. (Original) The automated event presentation system as set forth in claim 2, wherein the camera includes a wide-angle imaging device.

5. (Original) The automated event presentation system as set forth in claim 1, wherein the automated online broadcasting system further comprises a switching module that allows switching between of the omni-directional image of the event.

6. (Original) The automated event presentation system as set forth in claim 1, wherein the omni-direction camera system has a resolution of approximately 1000 by 1000 pixels.

7. (Original) The automated event presentation system as set forth in claim 1, wherein the automated online broadcasting system further comprises an analysis module for finding and indexing the event participants.

8. (Currently Amended) A method for filming and recording an event having event participants and presenting the event to a viewer, comprising:

filming and recording the event using an omni-directional camera system to provide a seamless omni-directional image that contains each of the event participants;

automatically determining a location of the event participants in the omni-directional image by using a speaker detection technique to determine the event participants that are speaking;

providing a user interface that allows a choice of which of the event participants in the omni-directional image to view, the choice being made by at least one of: (a) manually by the viewer; (b) automatically by a virtual director; and

switching instantaneously between views of the event participants in the omni-directional image in response to the choice.

9. (Original) A computer-readable medium having computer-executable instructions for performing the method recited in claim 8.

Serial No.: 09/881,843

Attorney Docket No: MCS-071-00

10. (Original) The method as set forth in claim 9, further comprising storing annotations associated with the event and synchronizing these annotations with the event.

11. (Original) The method as set forth in claim 10, further comprising allowing the viewer to select which of the annotations to store.

12. (Original) The method as set forth in claim 10, wherein which annotations to store may be selected: (a) while the event is occurring; (b) after the event has occurred.

13. (Original) The method as set forth in claim 10, wherein the annotations include at least one of: (a) a whiteboard; (b) a digital chat regarding the event; (c) a digital question and answer session over a computer network.

14. (Canceled)

15. (Currently Amended) The method as set forth in claim 44 8, wherein multiple camera views are obtained from the omni-directional image and further comprising using the speaker detection technique to follow event participants that are speaking by switching from one camera view to another camera view.

16. (Currently Amended) The method as set forth in claim 44 8, wherein the speaker detection technique is a microphone-array sound source localization technique that uses a microphone array and sound source localization algorithms.

17. (Original) The method as set forth in claim 8, wherein the omni-directional camera system is one of: (a) a single panoramic camera; (b) an array cameras having an approximately 360-degree field-of-view.

18. (Currently Amended) A method for displaying at least a portion of a seamless omni-directional image capturing an event occurring within an event environment, comprising:

Serial No.: 09/881,843

Attorney Docket No: MCS-071-00

filming the event and automatically tracking event participants using an a single omni-directional camera system having a single camera to produce the seamless omni-directional image;

transmitting the omni-directional image from a broadcasting platform to a viewer platform using a computer network;

using the viewer platform to allow a viewer to select which portion of the omni-directional image the viewer would like to view; and

switching instantaneously between views of the omni-directional image by presenting a desired portion of the omni-directional image as selected by the viewer.

19. (Previously Presented) The method as set forth in claim 18, wherein the viewer selects to view multiple portions of the omni-directional image.

20. (Original) The method as set forth in claim 18, wherein the omni-directional image contains all event participants within the event environment.

21. (Original) An automated event presentation system for capturing an event, comprising:

a high-resolution omni-directional camera system that provides an omni-directional image of the event, the omni-directional image containing multiple camera views;

an automated online broadcasting system capable of broadcasting the omni-directional image over a computer network;

a viewer platform in communication with computer network that receives the omni-directional image; and

a virtual director module within the automated online broadcasting system that determines which of the multiple camera views within the omni-directional image to display on the viewer platform by applying a set of expert production rules based at least in part on a display history of an event participant.

22. (Original) The automated event presentation system as set forth in claim 21,

Serial No.: 09/881,843

Attorney Docket No: MCS-071-00

wherein the virtual director module further comprises a switching module that provides switching between the multiple camera views of the event.

23. (Original) The automated event presentation system as set forth in claim 22, wherein the switching module provides instantaneous switching between the multiple camera views.

24. (Original) The automated event presentation system as set forth in claim 22, wherein the switching module is capable of providing negative switching that allows switching to a camera view of a person speaking before the person begins to speak.

25. (Previously Presented) The automated event presentation system as set forth in claim 1, wherein the omni-directional camera system requires no physical movement to capture the event participants.

26. (Previously Presented) The automated event presentation system as set forth in claim 1, further comprising a user interface on the viewer platform that allows an arbitrary number of viewers to view an arbitrary number of viewpoints of the broadcasted event.

27. (Previously Presented) The automated event presentation system as set forth in claim 1, wherein the omni-directional image provides an infinite number of viewpoints, with each of the viewpoints corresponding to a portion of the omni-directional image, such that instantaneous switching is supported for an infinite number of viewers that select arbitrarily different viewpoints.

28. (Previously Presented) The method as set forth in claim 18, further comprising:

transmitting a low-resolution version of the omni-directional image to the viewer platform, wherein the omni-directional image produced by the omni-directional camera system is a high-resolution omni-directional image;

Serial No.: 09/881,843

Attorney Docket No: MCS-071-00

selecting which portion of the omni-directional image to view, the selection being made by at least one of: (a) manually by the viewer; (b) automatically by a virtual director module; and

transmitting a high-resolution version of the selected portion of the omni-directional image to the viewer platform.

29. (New) An automated event presentation system for capturing and viewing an event having event participants, comprising:

an omni-directional camera system that provides a seamless omni-directional image of the event;

a tracker module that automatically tracks the event participants simultaneously within the omni-directional image;

a virtual director module that uses audio and video processing techniques to automatically select without user intervention at least a portion of the omni-directional image for use as an output view;

an automated online broadcasting system that broadcasts the output view and the omni-directional image over a computer network; and

a viewer platform in communication with the automated online broadcasting system that allows a viewer to view at least one of: (a) the output view; (b) the omni-directional image.

30. (New) The automated event presentation system as set forth in claim 29, further comprising a plurality of viewer platforms in communication with the automated online broadcasting system that allows a plurality of remote viewers to simultaneously view different views of the broadcasted event.

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